



NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

APOLLO 17

ALL LAUNCH DATES

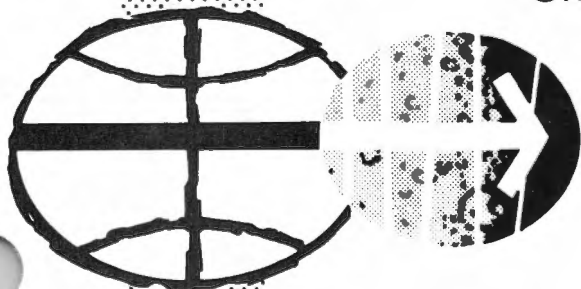
BASIC

CSM SYSTEMS DATA

PREPARED BY

FLIGHT PLANNING BRANCH

CREW PROCEDURES DIVISION



MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

AUGUST 31, 1972

APOLLO 17

CSM SYSTEMS DATA

AUGUST 31, 1972

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APOLLO FLIGHT DATA FILE MANAGER

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APOLLO 17

CSM SYSTEMS DATA BOOK

Basic 8/31/72

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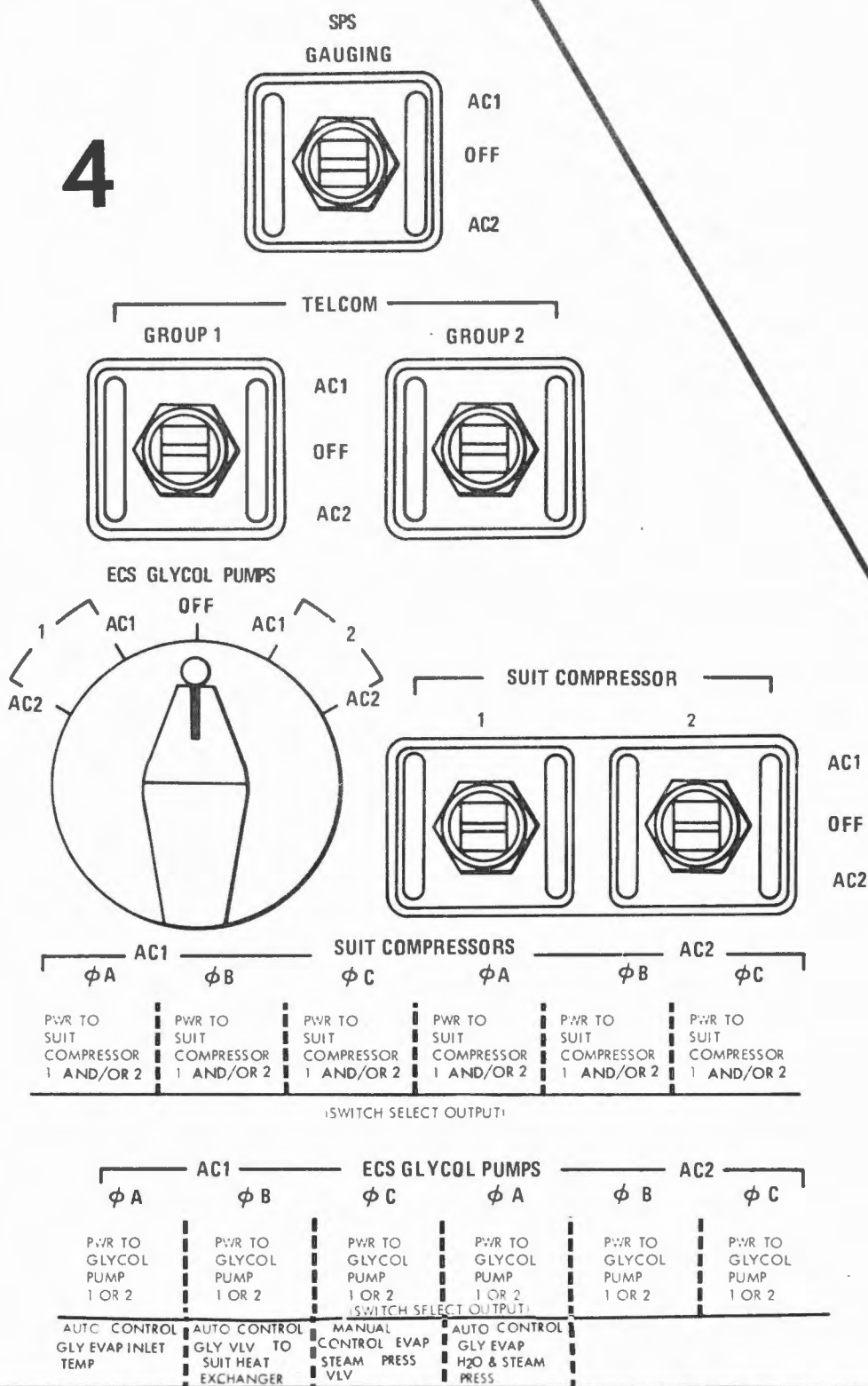
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** Schematic dates shown are the sign-off dates.

*** Date shown is the publication date of the CSM Systems Handbook from which these drawings were taken.

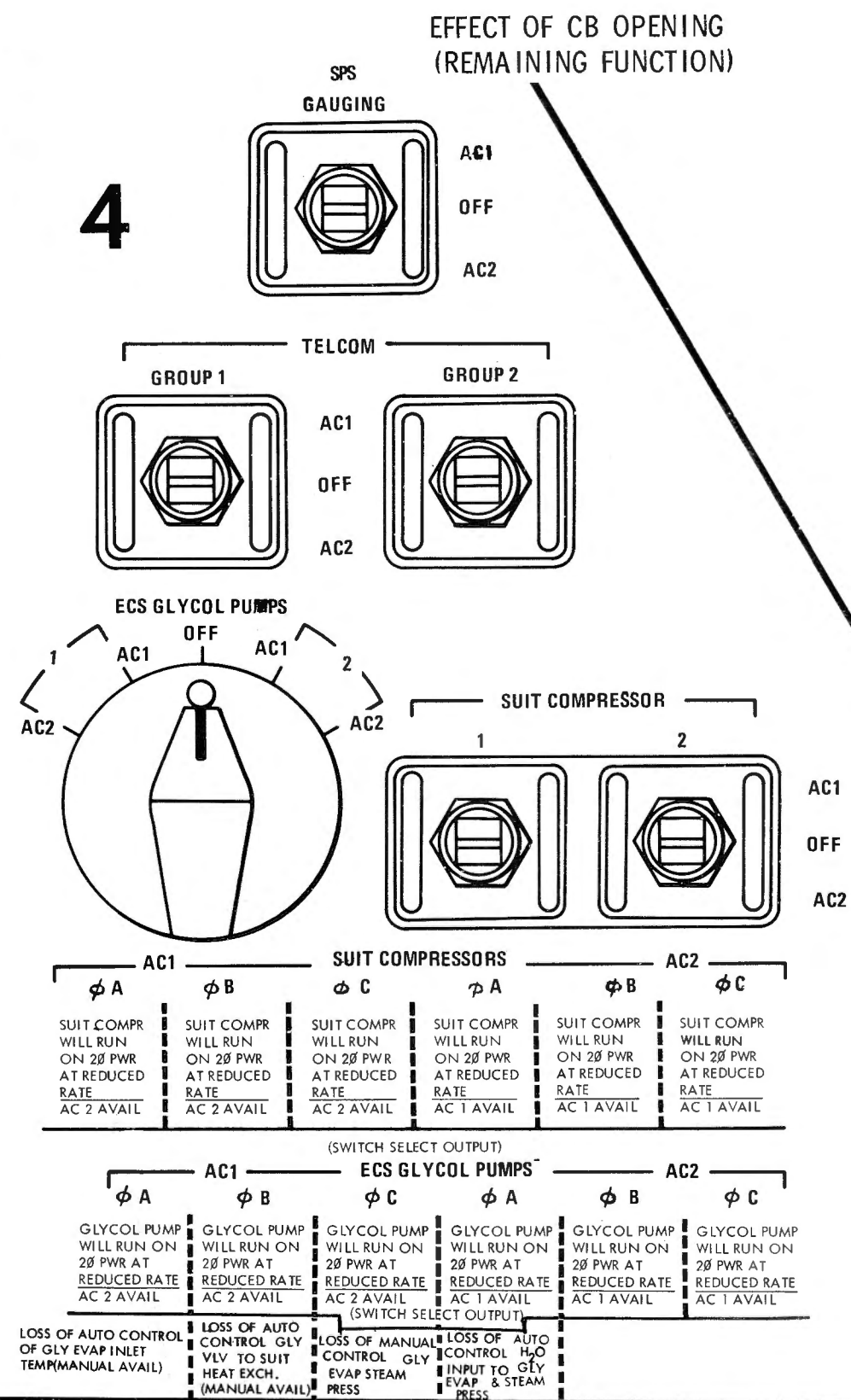
FUNCTIONS POWERED THRU CB

4



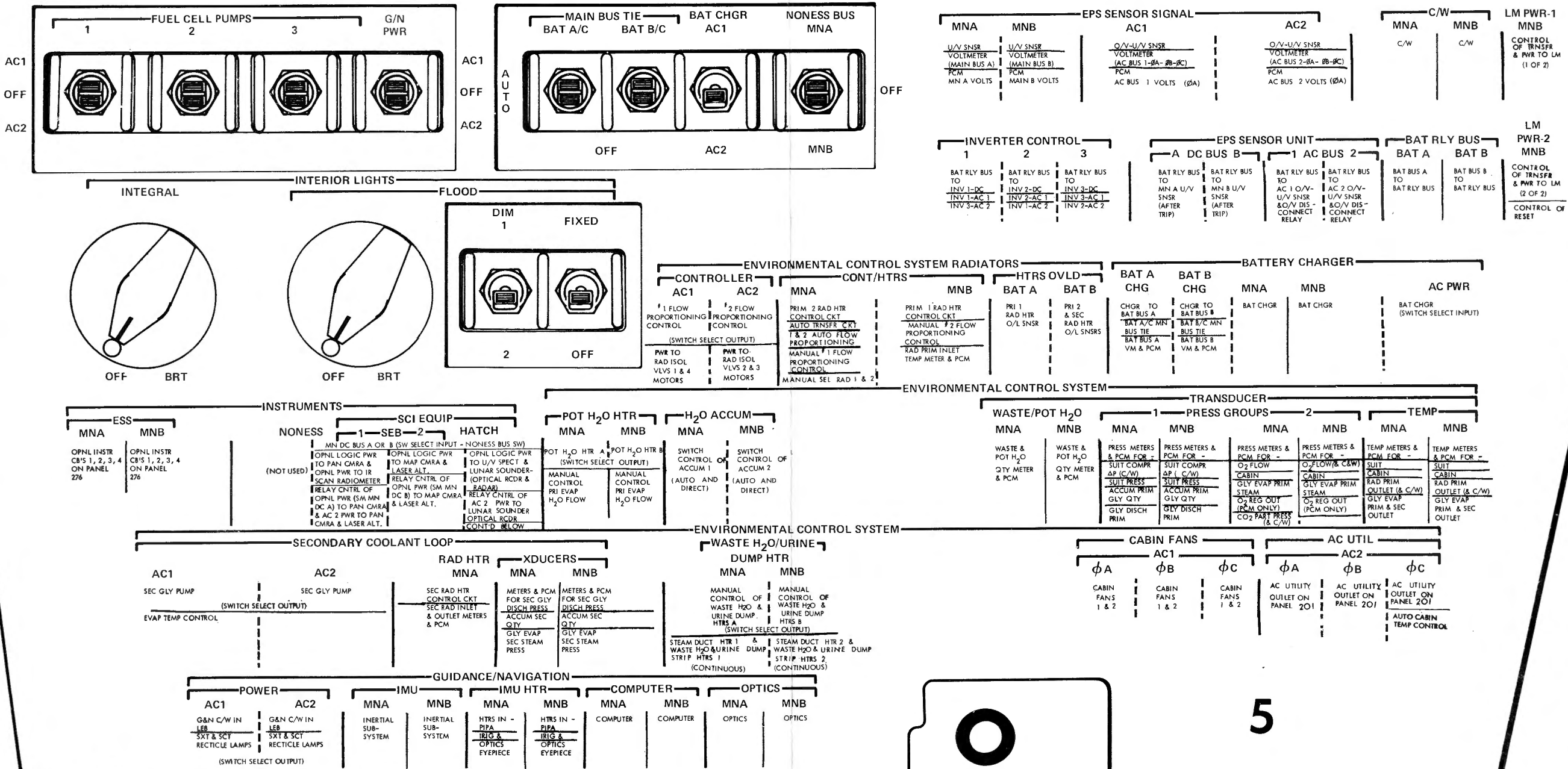
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— LINE BETWEEN CIRCUIT BREAKERS
 --- DESIGNATES DUAL POWER TO FUNCTION
 - - - - - DESIGNATES SIMILAR FUNCTIONS
 ——— DESIGNATES DIFFERENT FUNCTIONS

**LEGEND:**

— LINE BETWEEN CIRCUIT BREAKERS
 ——— DESIGNATES DUAL POWER TO FUNCTION
 - - - - - DESIGNATES SIMILAR FUNCTIONS
 ——— DESIGNATES DIFFERENT FUNCTIONS

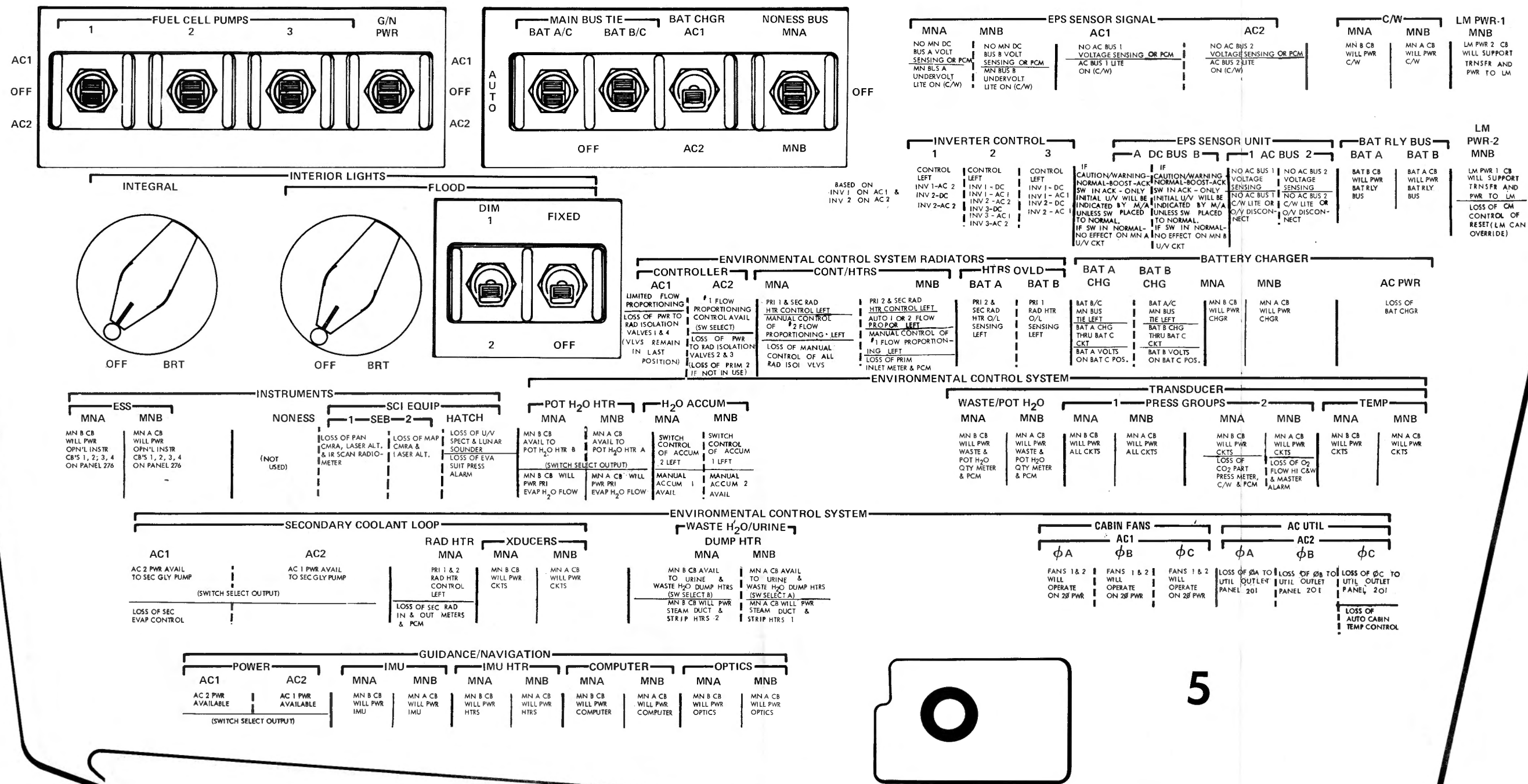
FUNCTIONS POWERED THRU CB



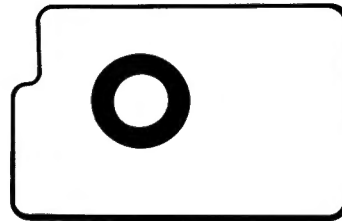
LEGEND:
— LINE BETWEEN CIRCUIT BREAKERS
— DESIGNATES DUAL POWER TO FUNCTION
— DESIGNATES SIMILAR FUNCTIONS
— DESIGNATES DIFFERENT FUNCTIONS

HATCH
RELAY CNTRL OF OPNL PWR (SM MN DC B) TO LUNAR SOUNDER OPTICAL RCDR
RELAY CNTRL OF OPNL PWR (SM MN DC A) TO LUNAR SOUNDER RADAR
EVA SUIT PRESS ALARM

EFFECT OF CB OPENING
(REMAINING FUNCTION)

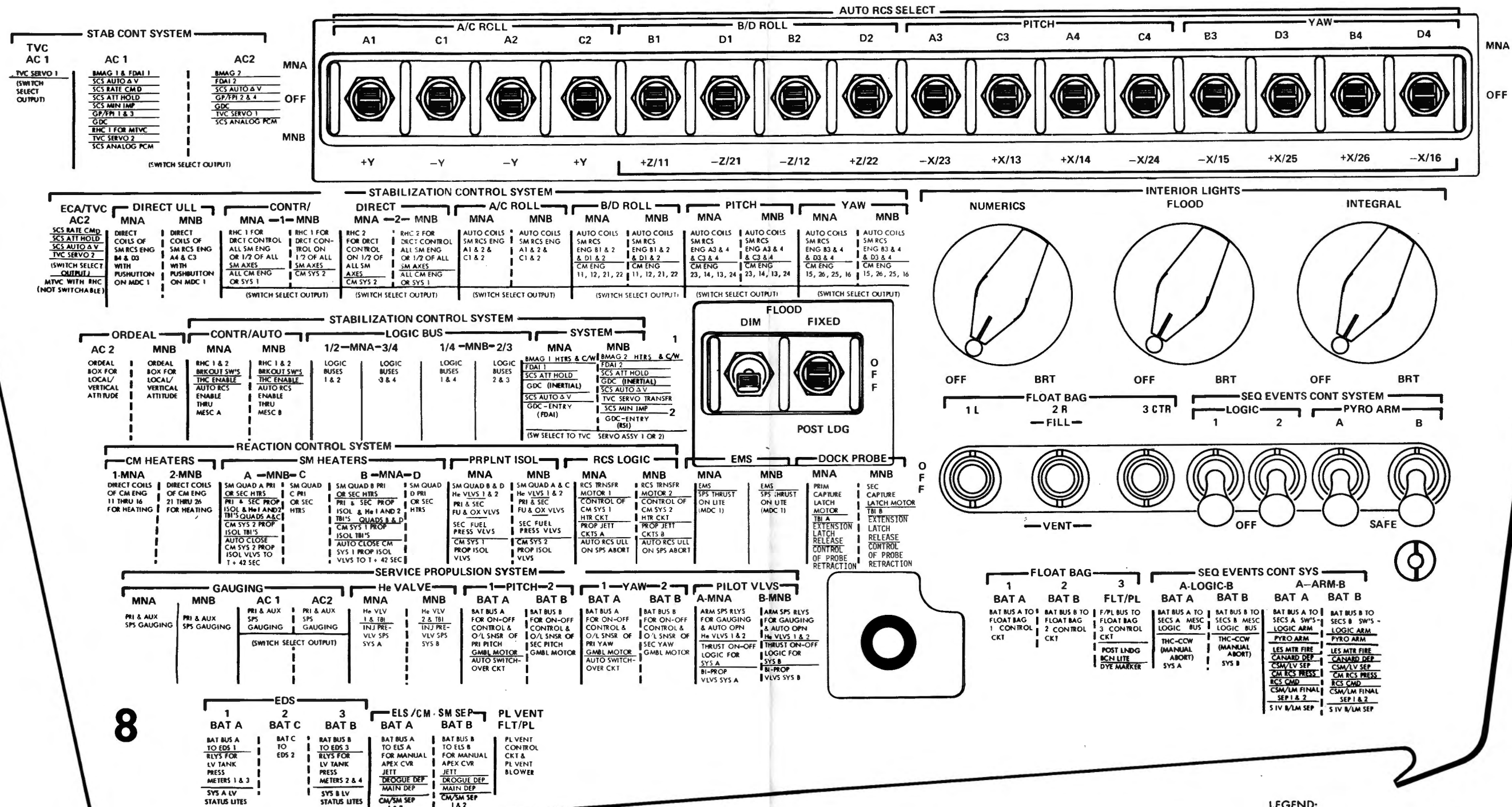


LEGEND:
— LINE BETWEEN CIRCUIT BREAKERS
— DESIGNATES DUAL POWER TO FUNCTION
— DESIGNATES SIMILAR FUNCTIONS
— DESIGNATES DIFFERENT FUNCTIONS



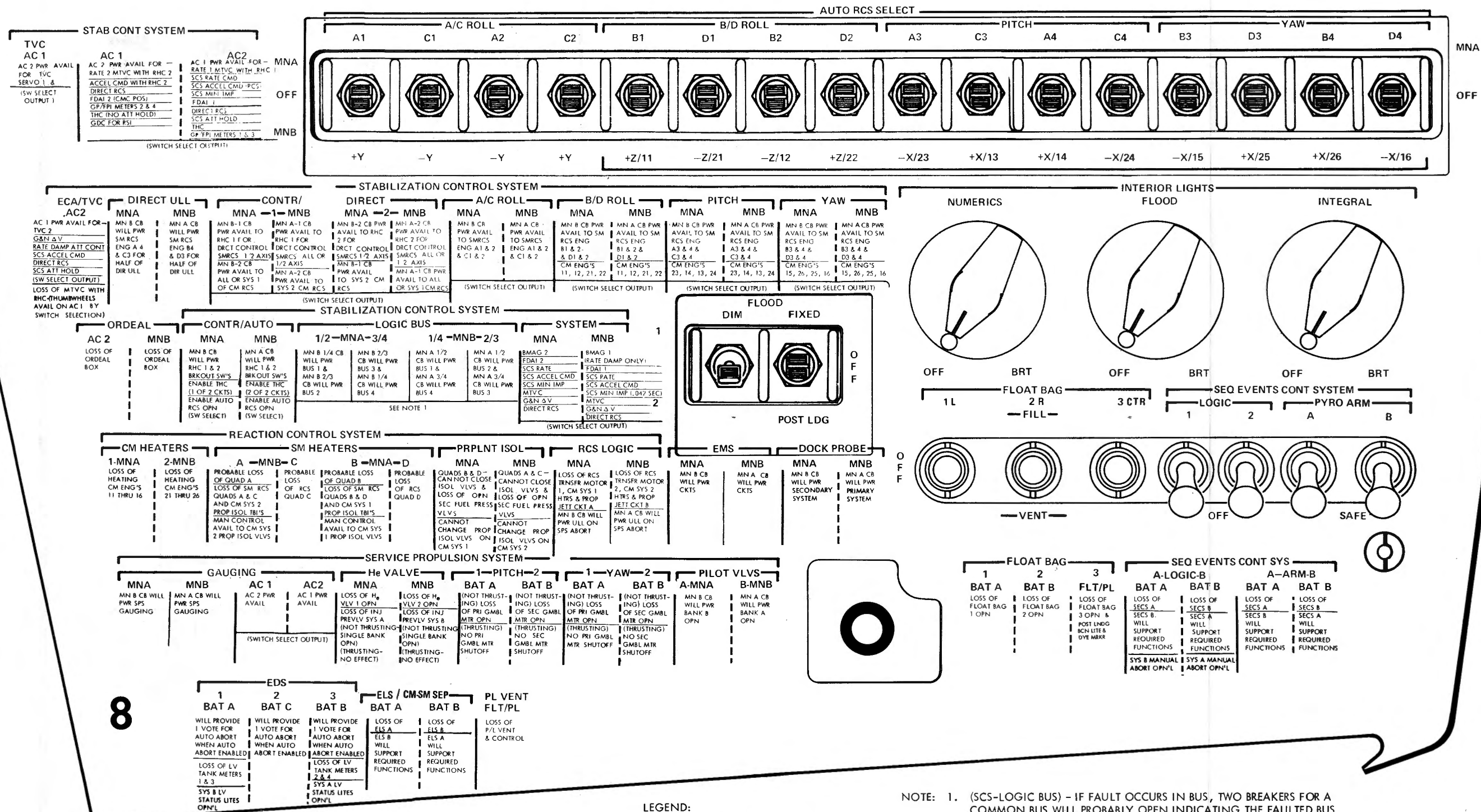
5

FUNCTIONS POWERED THRU CB



LEGEND:
 — LINE BETWEEN CIRCUIT BREAKERS
 - - - DESIGNATES DUAL POWER TO FUNCTION
 - - - DESIGNATES SIMILAR FUNCTIONS
 ——— DESIGNATES DIFFERENT FUNCTIONS

EFFECT OF CB OPENING (REMAINING FUNCTION)



NOTE: 1. (SCS-LOGIC BUS) - IF FAULT OCCURS IN BUS, TWO BREAKERS FOR A COMMON BUS WILL PROBABLY OPEN INDICATING THE FAULTED BUS

2. TWO CB'S OPEN WILL INITIATE AN AUTO ABORT (WHEN EDS AUTO ENABLED)

LEGEND:
 LINE BETWEEN CIRCUIT BREAKERS
 DESIGNATES DUAL POWER TO FUNCTION
 DESIGNATES SIMILAR FUNCTIONS
 DESIGNATES DIFFERENT FUNCTIONS

PNL 8

PNL 8

PNL 8

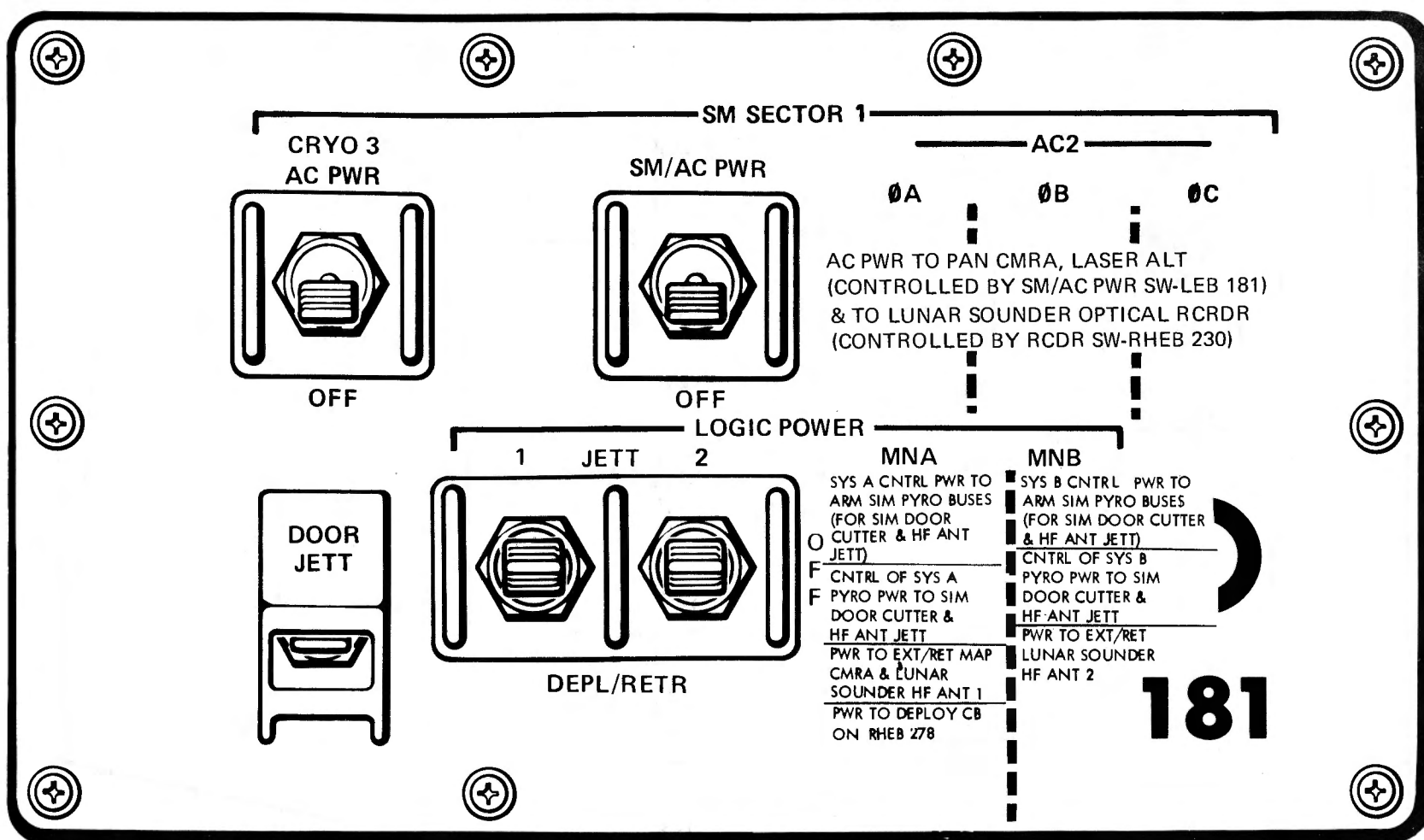
PNL 8

PNL 8

PNL 8

PNL 8

FUNCTIONS POWERED THRU CB

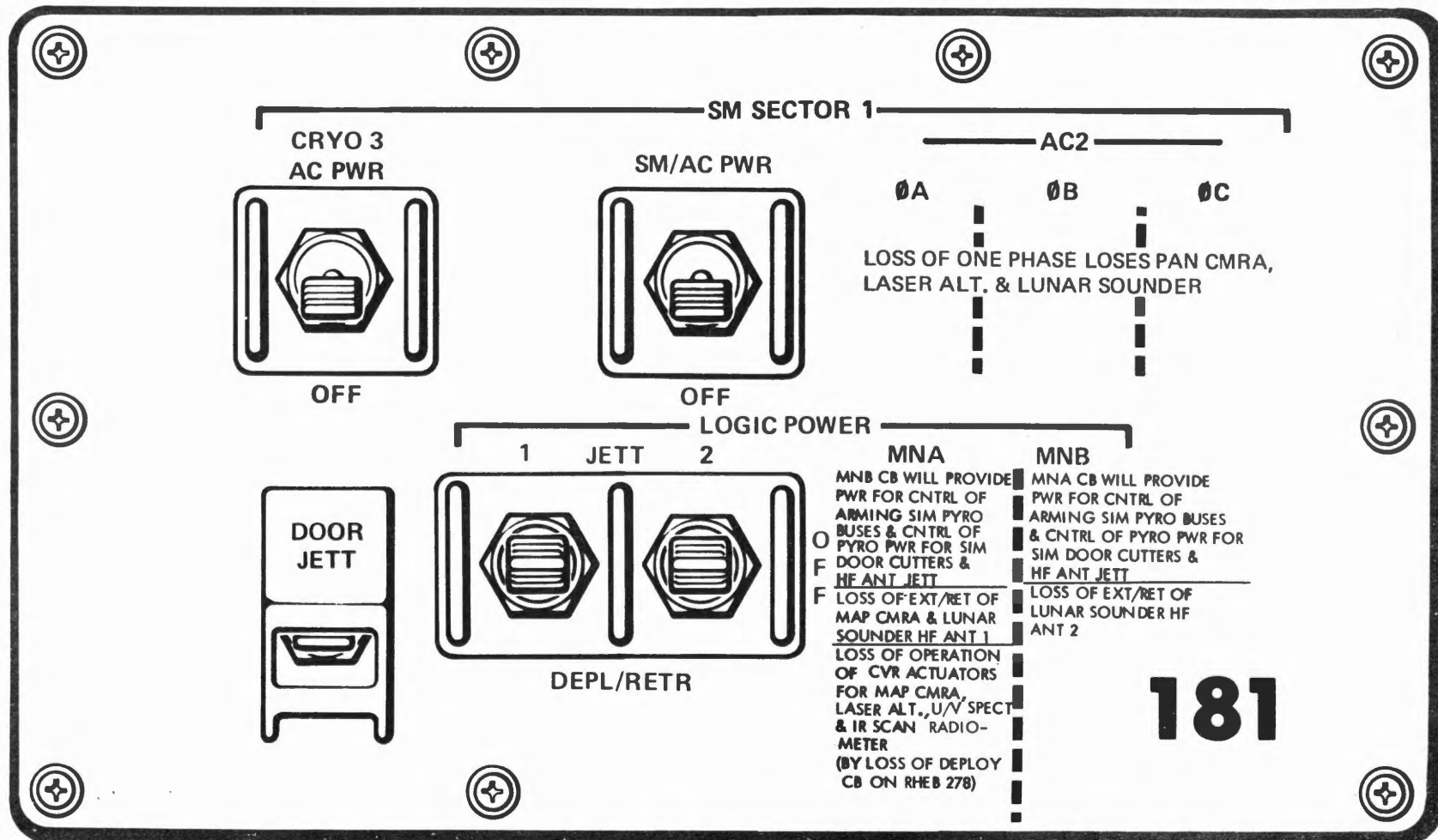


LEGEND:

- LINE BETWEEN CIRCUIT BREAKERS
- DESIGNATES DUAL POWER TO FUNCTION
- - - DESIGNATES SIMILAR FUNCTIONS
- DESIGNATES DIFFERENT FUNCTIONS

EFFECT OF CB OPENING (REMAINING FUNCTION)

DATE 8/31/72

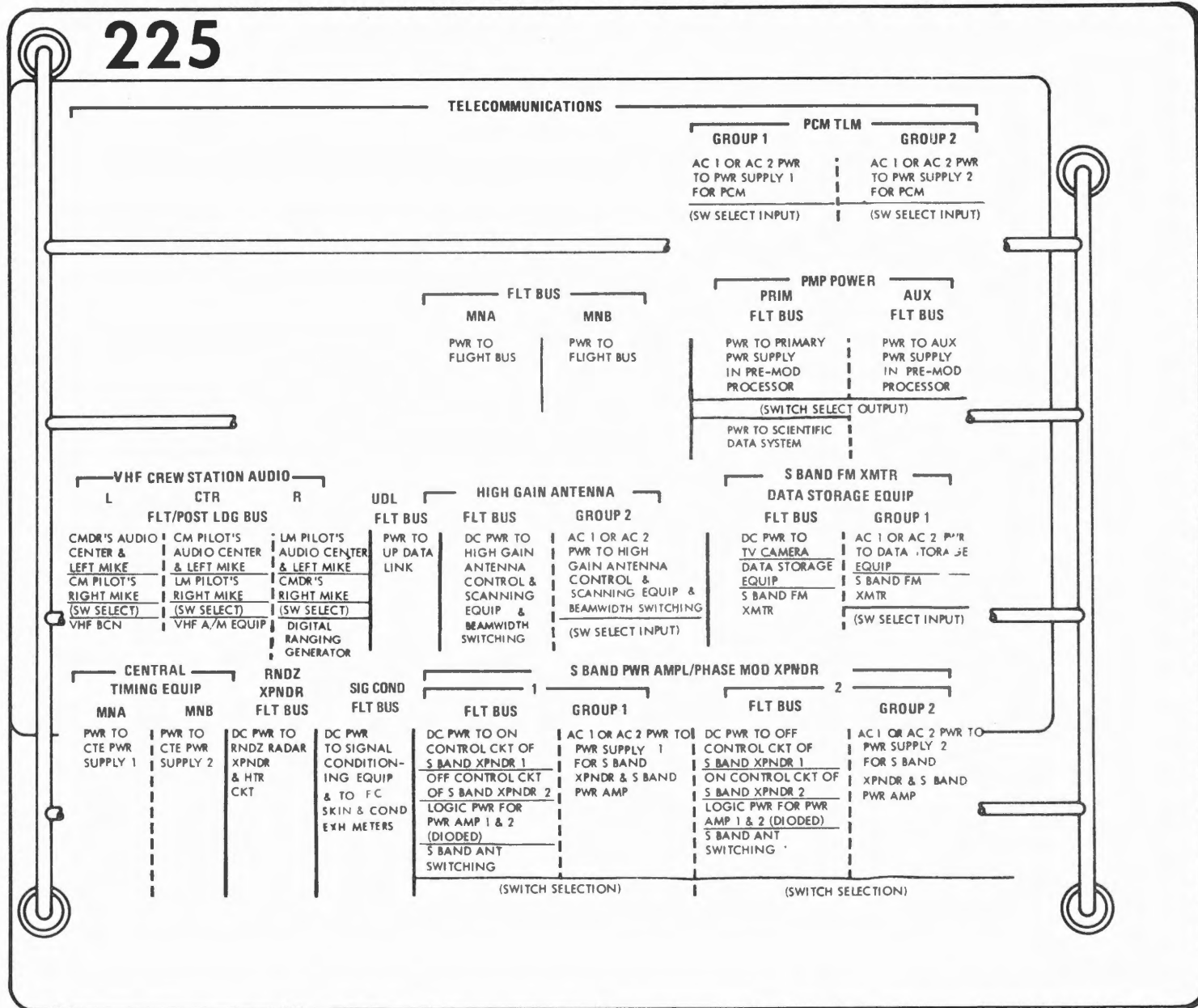


LEGEND:

- LINE BETWEEN CIRCUIT BREAKERS
- DESIGNATES DUAL POWER TO FUNCTION
- - - - - DESIGNATES SIMILAR FUNCTIONS
- DESIGNATES DIFFERENT FUNCTIONS

PAGE 8

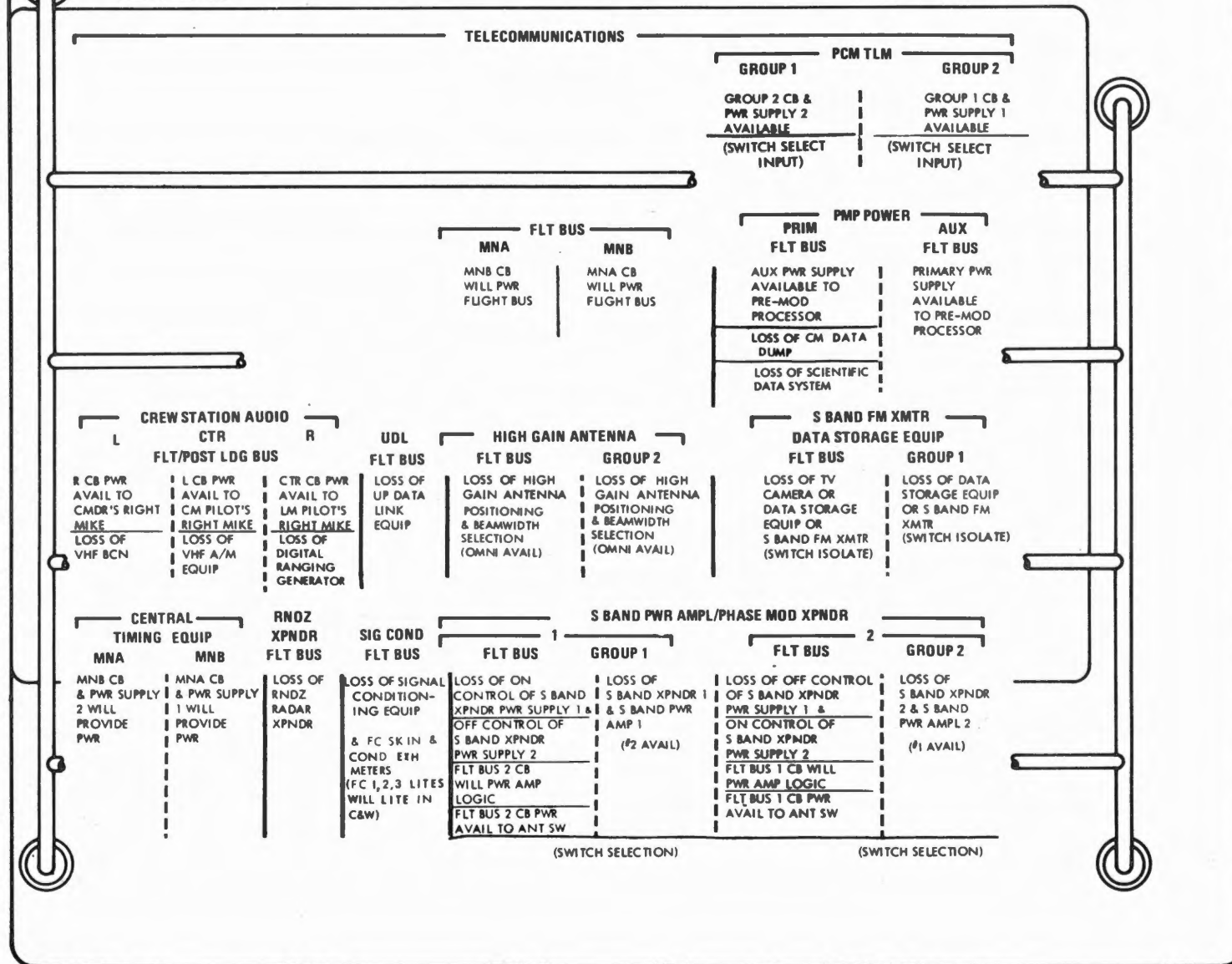
225



LEGEND:
 LINE BETWEEN CIRCUIT BREAKERS
 DESIGNATES DUAL POWER TO FUNCTION
 DESIGNATES SIMILAR FUNCTIONS
 DESIGNATES DIFFERENT FUNCTIONS

EFFECT OF CB FAILING (REMAINING FUNCTION)

225



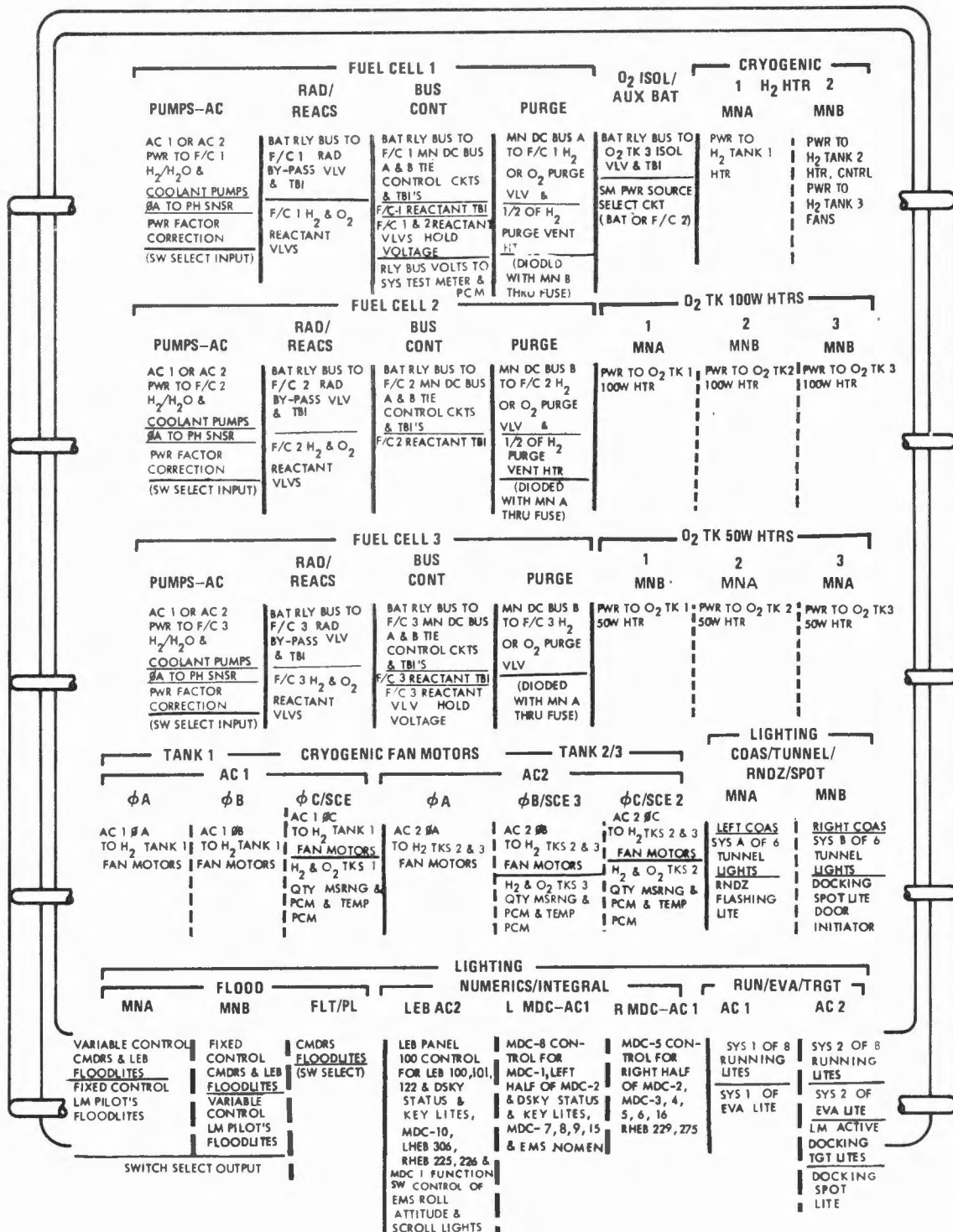
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 — LINE BETWEEN CIRCUIT BREAKERS
 - - - DESIGNATES DUAL POWER TO FUNCTION
 ——— DESIGNATES SIMILAR FUNCTIONS
 ——— DESIGNATES DIFFERENT FUNCTIONS

DATE 8/31/72

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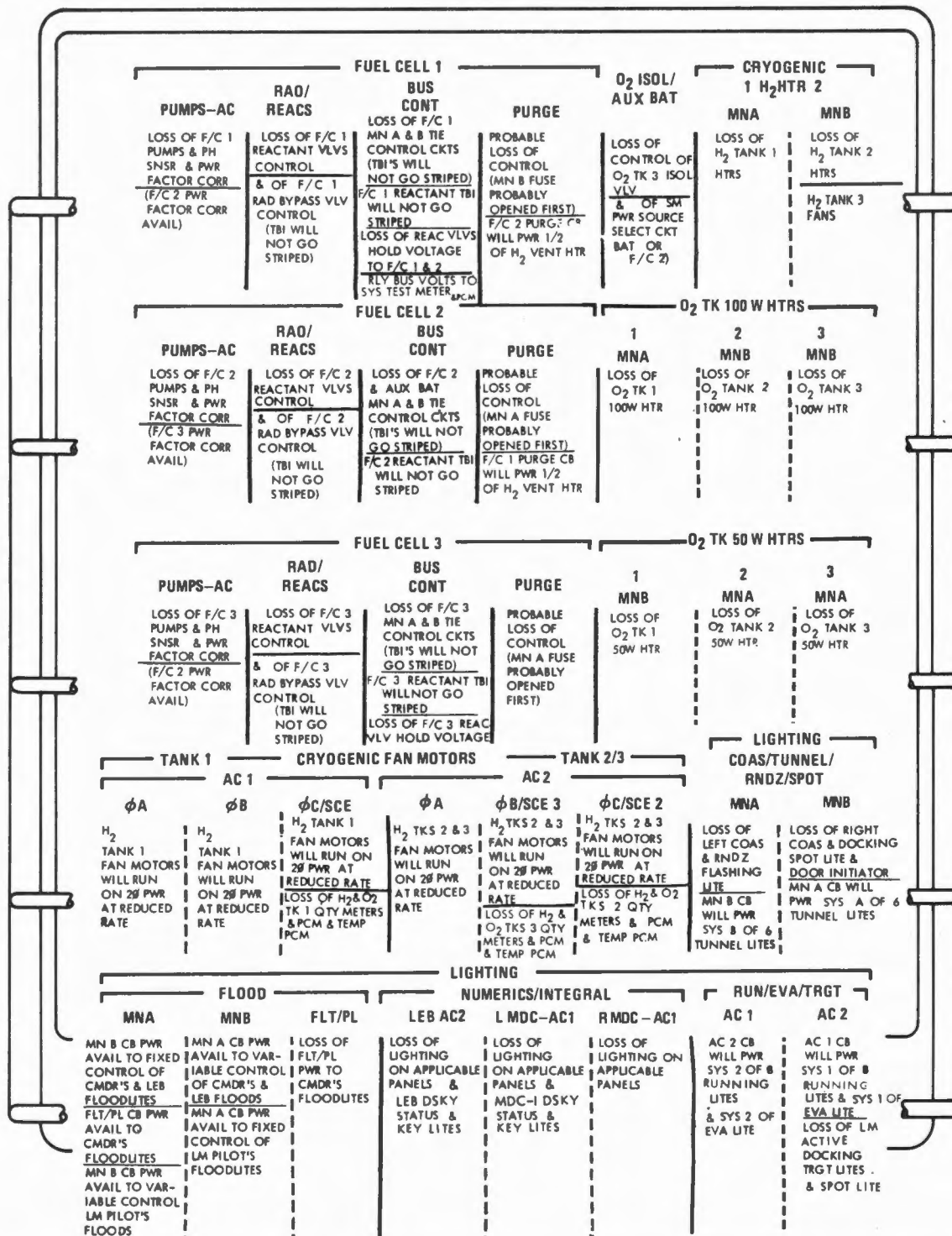
FUNCTIONS POWERED THRU CB

226



EFFECT OF CB OPENING
(REMAINING FUNCTION)

226



LEGEND:

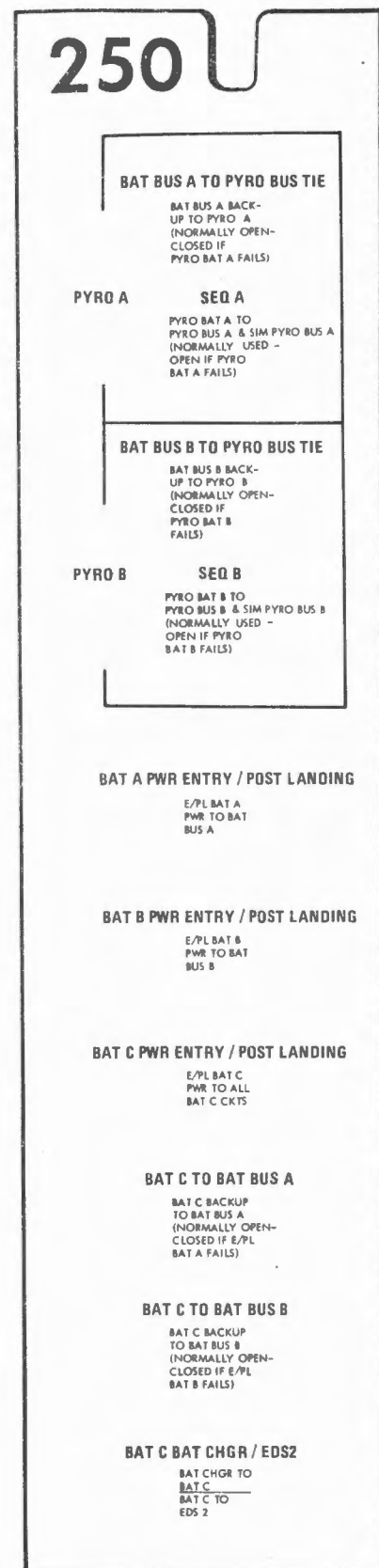
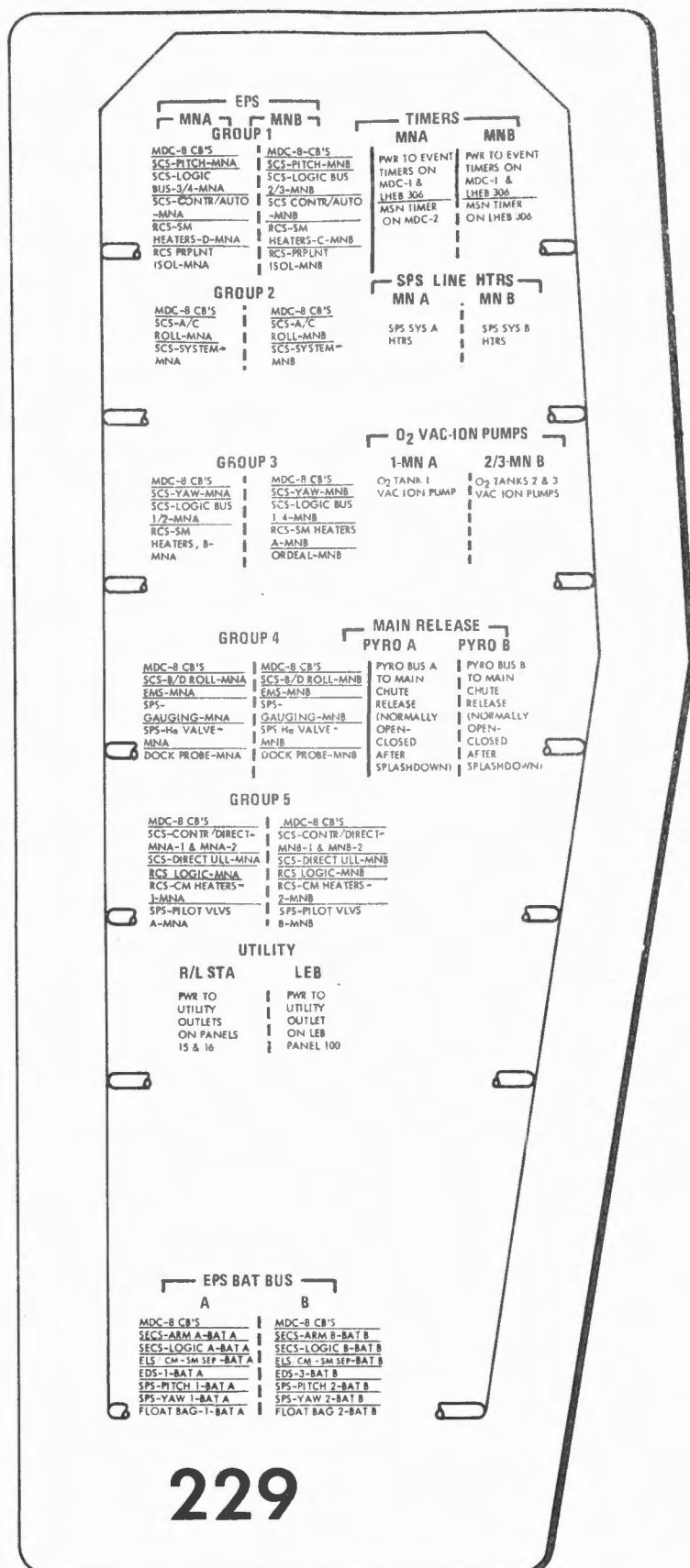
— LINE BETWEEN CIRCUIT BREAKERS

— DESIGNATES DUAL POWER TO FUNCTION

--- DESIGNATES SIMILAR FUNCTIONS

--- DESIGNATES DIFFERENT FUNCTIONS

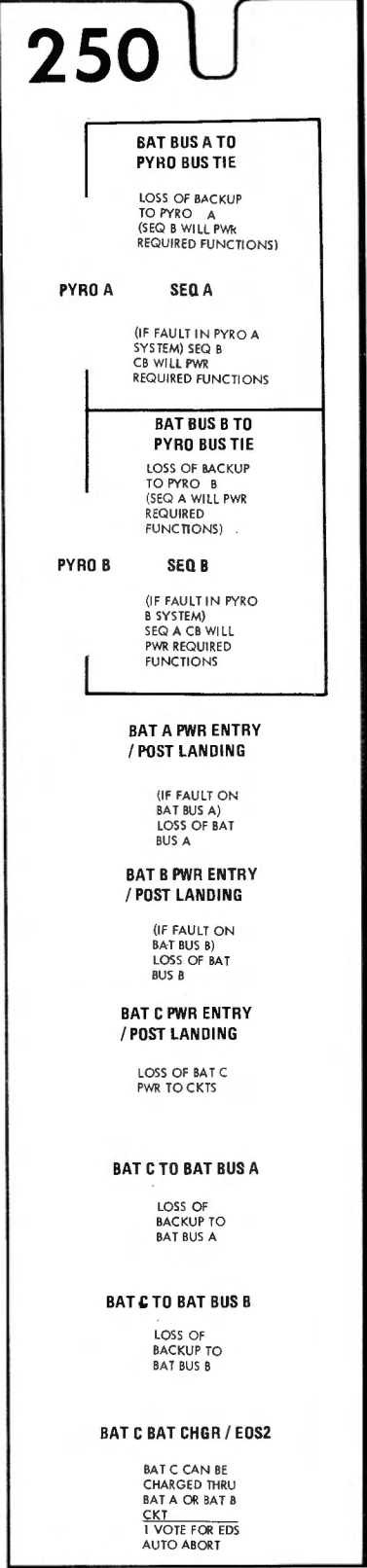
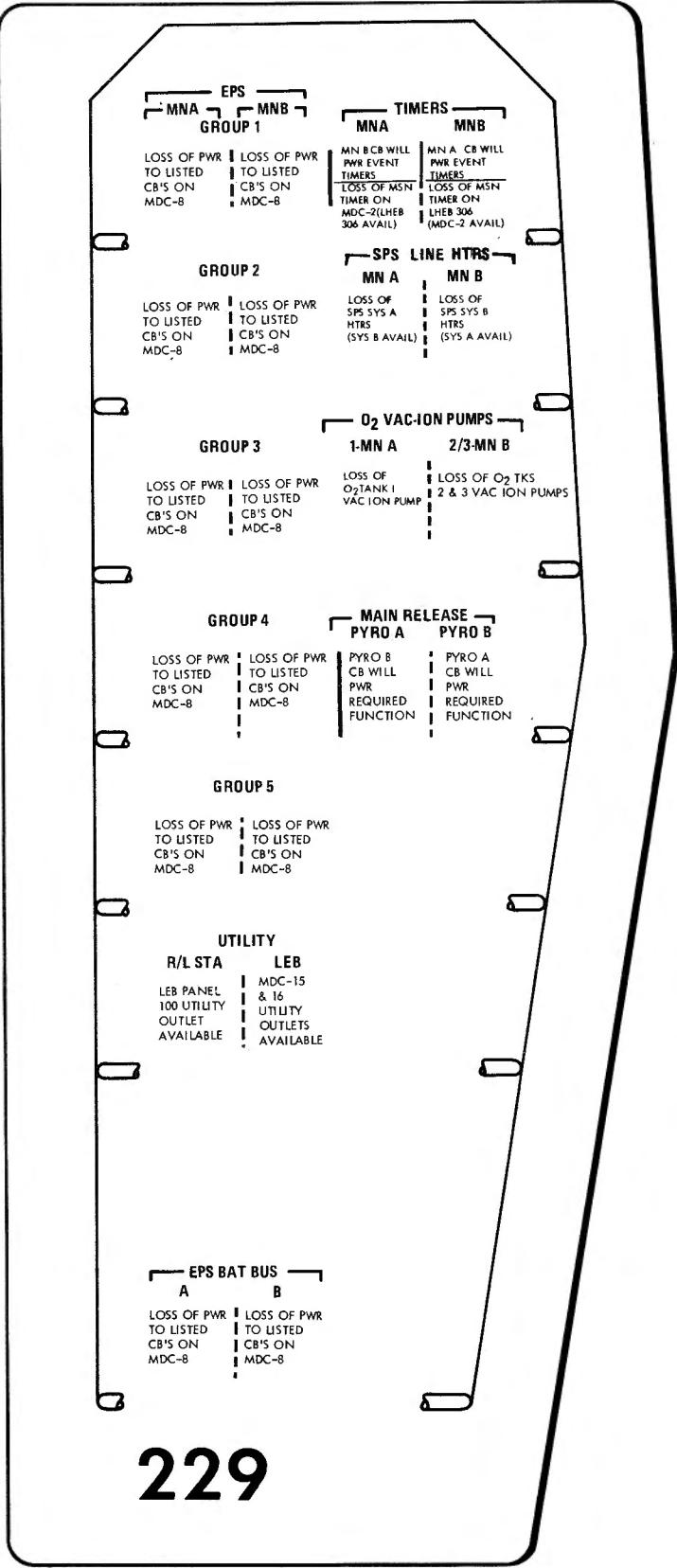
FUNCTIONS POWERED THRU CB



LEGEND:

- LINE BETWEEN CIRCUIT BREAKERS
- DESIGNATES DUAL POWER TO FUNCTION
- DESIGNATES SIMILAR FUNCTIONS
- DESIGNATES DIFFERENT FUNCTIONS

EFFECT OF CB OPENING
(REMAINING FUNCTION)



LEGEND:
— LINE BETWEEN CIRCUIT BREAKERS
--- DESIGNATES DUAL POWER TO FUNCTION
--- DESIGNATES SIMILAR FUNCTIONS
--- DESIGNATES DIFFERENT FUNCTIONS

PNLS
229,250

PNLS
229,250

PNLS
229,250

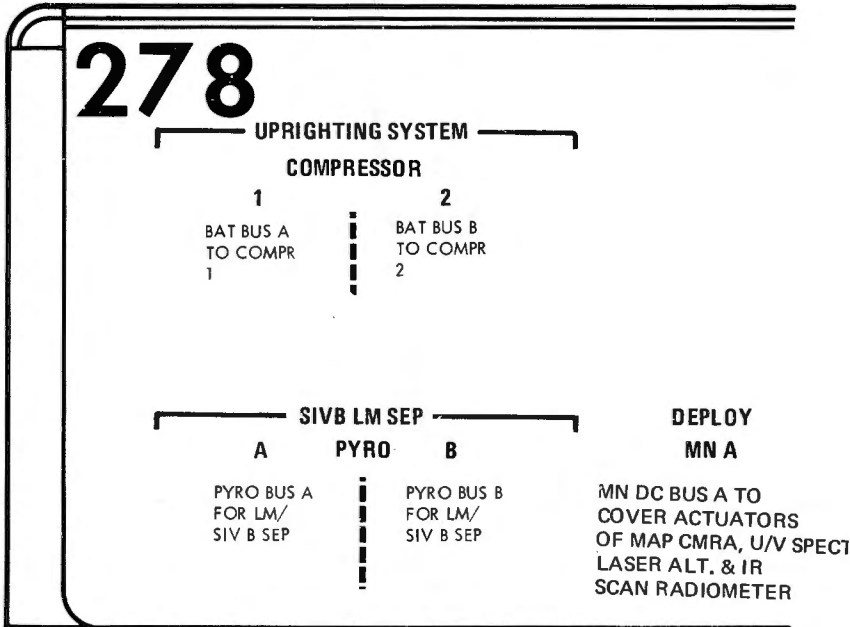
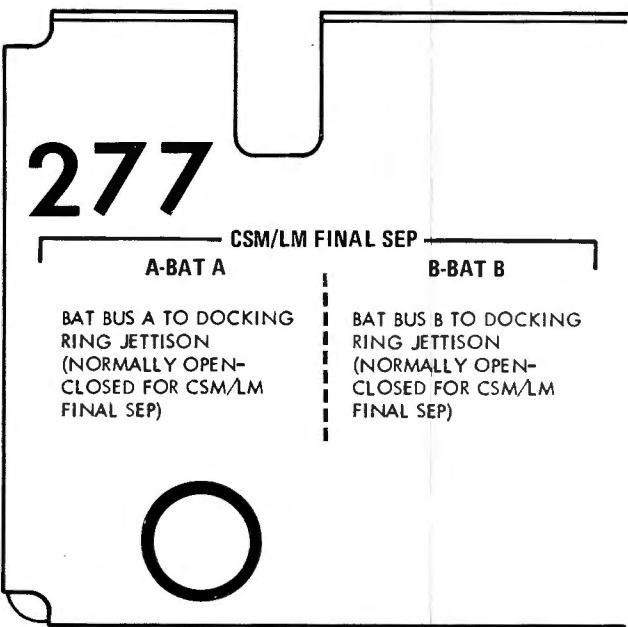
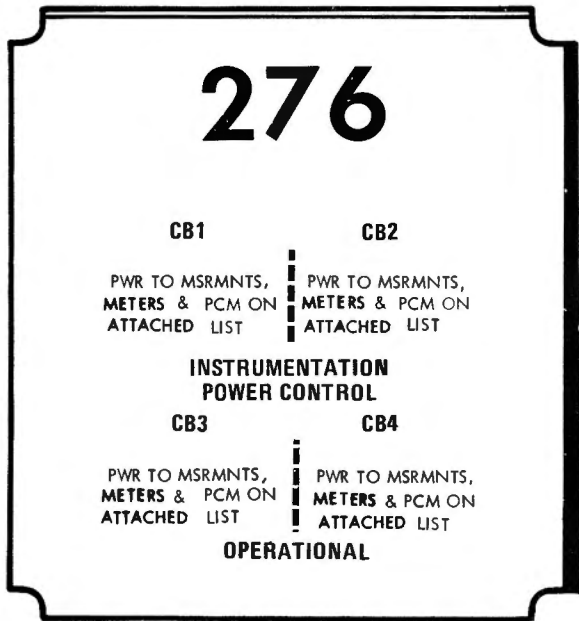
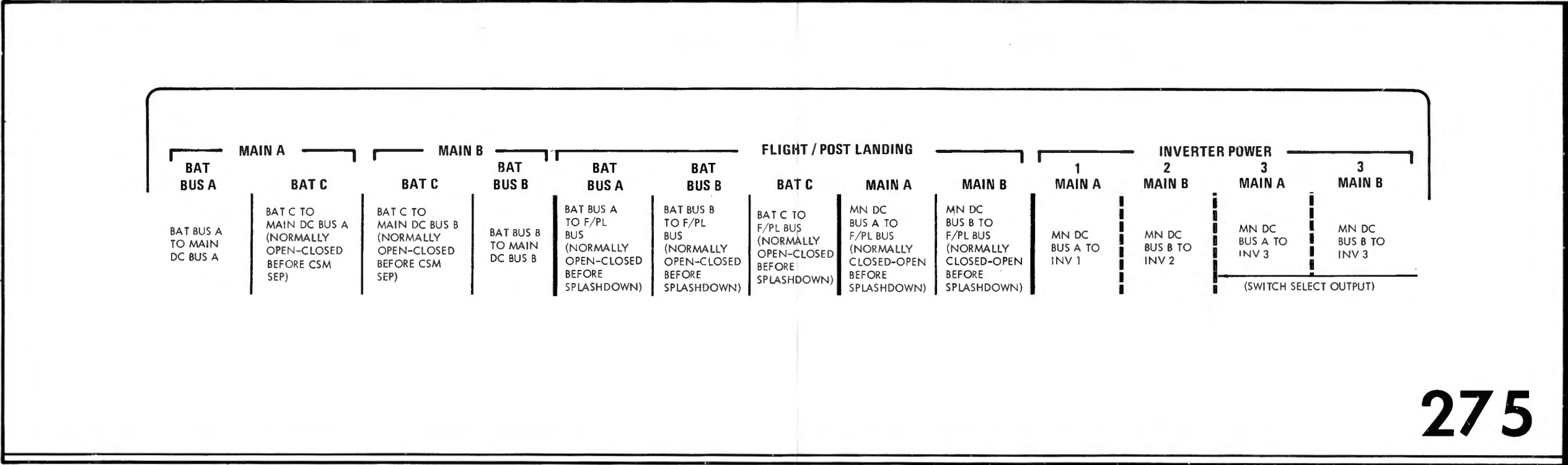
PNLS
229,250

PNLS
229,250

PNLS
229,250

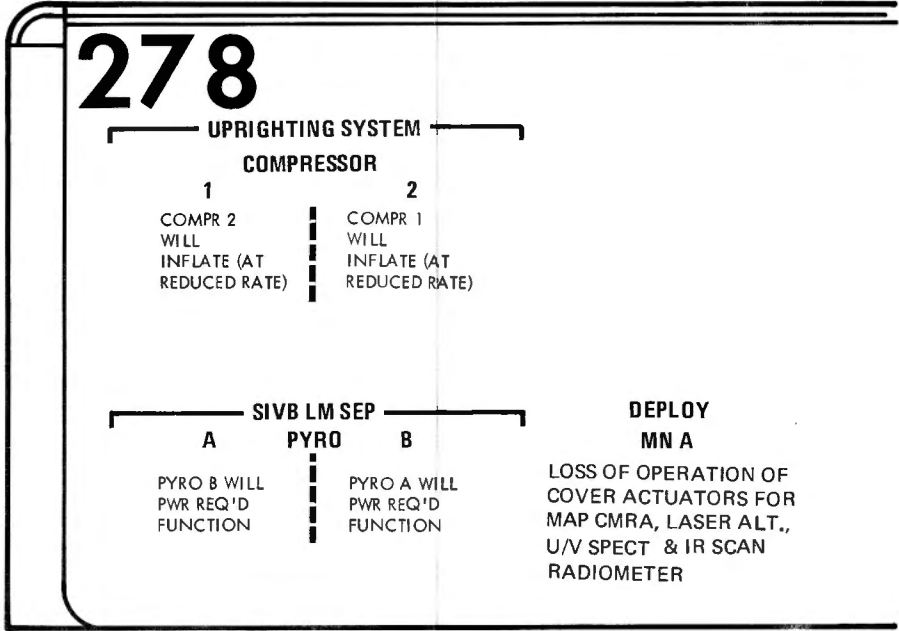
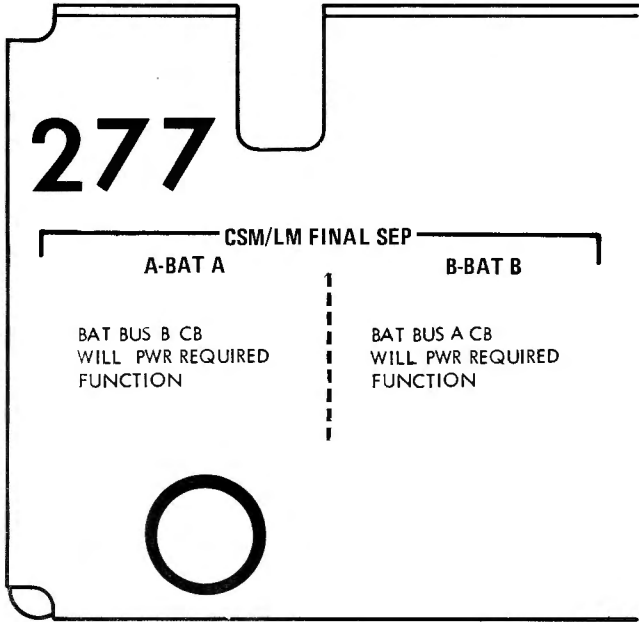
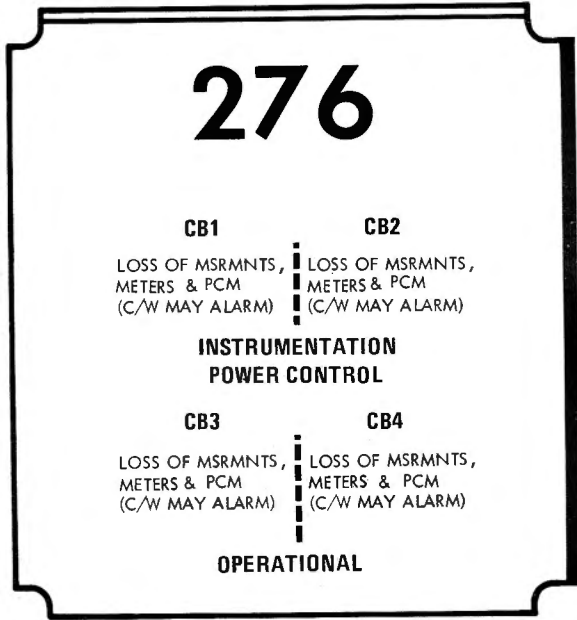
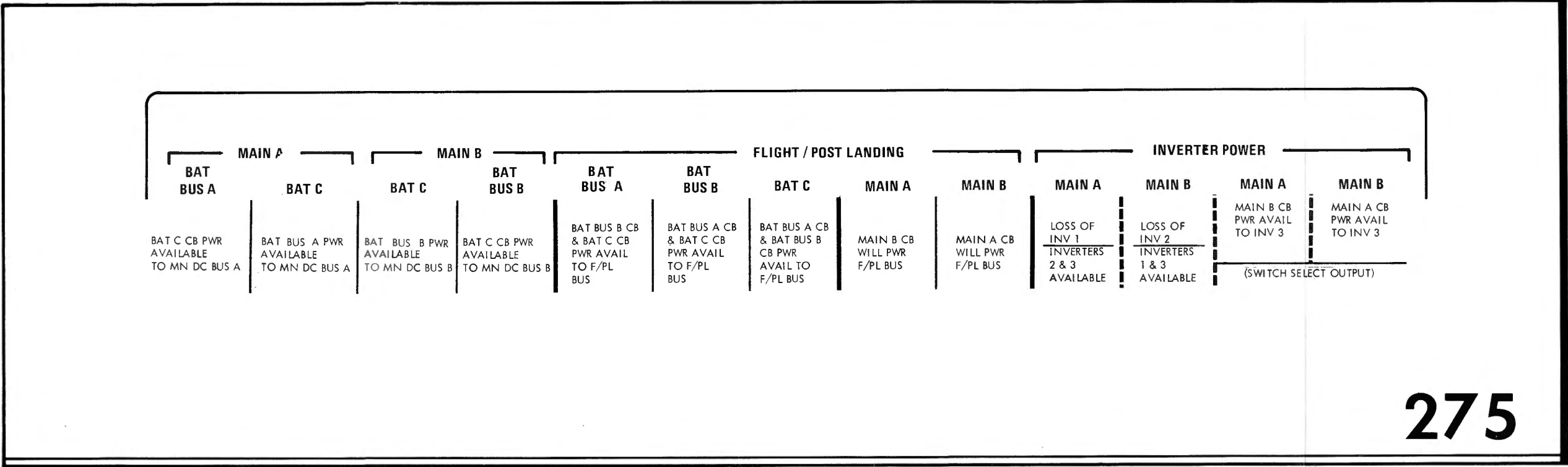
PNLS
229,250

FUNCTIONS POWERED THRU CB



LEGEND:
— LINE BETWEEN CIRCUIT BREAKERS
--- DESIGNATES DUAL POWER TO FUNCTION
--- DESIGNATES SIMILAR FUNCTIONS
--- DESIGNATES DIFFERENT FUNCTIONS

EFFECT OF CB OPENING
(REMAINING FUNCTION)



LEGEND:

- LINE BETWEEN CIRCUIT BREAKERS
- DESIGNATES DUAL POWER TO FUNCTION
- DESIGNATES SIMILAR FUNCTIONS
- DESIGNATES DIFFERENT FUNCTIONS

RIGHT HAND EQUIPMENT BAY PANEL 276

Msrmt Title	Msrmt No.	O.B. Display	Msrmt Title	Msrmt No.	O.B. Display
<u>CB1</u>			<u>CB 2 cont'd</u>		
Main dc bus A&B power to following measurements:			Dosimeter 1 Radiation	CK 1051K	
H ₂ O Dump Temp	CF 0461T		Dosimeter 2 Radiation	CK 1052K	
			Dosimeter Rate	CK 1053R	
CM He Tk 1 Press	CR 0001P	SM	CM He Tk 2 Press	CR 0002P	SM
CM He Tk 1 Temp	CR 0003T	SM	CM He Tk 2 Temp	CR 0004T	SM
CM He Manif 1 Press	CR 0035P	*	CM He Manif 2 Press	CR 0036P	*
CM He Manif 2 Press	CR 0038P	SM*	CM He Manif 1 Press	CR 0037P	SM*
Temp 16 Eng Inj Sys 1	CR 2103T	SM	Temp 14 Eng Inj Sys 1	CR 2100T	SM
Temp 12 Eng Inj Sys 1	CR 2114T	SM	Temp 24 Eng Inj Sys 2	CR 2110T	SM
			Temp 25 Eng Inj Sys 2	CR 2116T	SM
			Temp 21 Eng Inj Sys 2	CR 2119T	SM
<u>CB 2</u>			Docking Probe Temp	CS 0220T	
Main dc bus A&B power to following measurements:			<u>CB 3</u>		
Temp Crew Ablator Surf Loc 1A	CA 1820T		Main dc bus A&B power to following measurements:		
Temp Crew Ablator Surf Loc 4A	CA 1821T		Skin Temp 1A	SA 1830T	
Temp Crew Ablator Surf Loc 7A	CA 1822T		Skin Temp 7A	SA 1832T	
Temp Crew Ablator Surf Loc 10A	CA 1823T				
Press Batt Comprtmt (Manif)	CC 0188P	SM			
Drogue Dep Relay A	CE 0001X		O ₂ Tk 2 Press	SC 0038P	SM
Drogue Dep Relay B	CE 0002X		H ₂ Tk 2 Press	SC 0040P	SM*
Main Dep Relay A	CE 0003X		H ₂ Tk 3 Press	SC 0052P	SM
Main Dep Relay B	CE 0004X		O ₂ Tk 3 Press	SC 0053P	SM
Main Chute Disc Relay A	CE 0321X		O ₂ Tk 2&3 Manif Press	SC 0069P	*
Main Chute Disc Relay B	CE 0322X		O ₂ Tk 1 Htr Temp	SC 0070T	SM
			O ₂ Tk 3 Htr Temp	SC 0072T	SM
Suit Cabin Delta Press	CF 0003P	M	FC 2 O ₂ Press	SC 2067P	SM
Surge Tank Press	CF 0006P	SM	FC 3 O ₂ Press	SC 2068P	SM
H ₂ O Tank-Glycol Res Press	CF 0120P		FC 2 H ₂ Press	SC 2070P	SM
Pri Glycol Flow Rate	CF 0157R		FC 3 H ₂ Press	SC 2071P	SM
Pri Evap Inlet Temp	CF 0181T		FC 2 Rad Out Temp	SC 2088T	SMB*
Urine Dump Nozzle Temp	CF 0460T		FC 3 Rad Out Temp	SC 2089T	SMB*
			FC 2 Rad In Temp	SC 2091T	
Astro 1 EKG Axis 1	CJ 0060J		FC 3 Rad In Temp	SC 2092T	
Astro 2 EKG Axis 1	CJ 0061J		FC 2 H ₂ Flow	SC 2140R	SM*
Astro 3 EKG Axis 1	CJ 0062J		FC 3 H ₂ Flow	SC 2141R	SM*
Astro 1 Respir	CJ 0200R		FC 2 O ₂ Flow	SC 2143R	SM*
Astro 2 Respir	CJ 0201R		FC 3 O ₂ Flow	SC 2144R	SM*
Astro 3 Respir	CJ 0202R				
CM X Axis Accel	CK 0026A				
CM Y Axis Accel	CK 0027A				
CM Z Axis Accel	CK 0028A				

Msrmnt Title	Msrmnt No.	O.B. Display	Msrmnt Title	Msrmnt No.	O.B. Display
<u>CB 3 (Continued)</u>			<u>CB 3</u>		
He Tk Press	SP 0001P		(Experiments only)		
Ox Tks Press	SP 0003P	SM*	Pan Camera N ₂ Tk Press	SL 1043P	
Pos Fu/Ox Vlv 1 pot B	SP 0022H		UVS Electronic Temp	SL 1109T	
Pos Fu/Ox Vlv 3 pot B	SP 0024H		Sim Therm Env Shelf Temp	SL 1201T	
Pos Fu/Ox Vlv 2 pot A	SP 0027H	M	Sim Therm Env BM1 Temp	SL 1202T	
Pos Fu/Ox Vlv 4 pot A	SP 0029H	M	Sim Therm Env BM1 Temp	SL 1204T	
Temp Fuel Eng Feed Line	SP 0048T	M	Sim Therm Env BM6 Temp	SL 1205T	
Ox Line Temp	SP 0054T		Sim Therm Env BM6 Temp	SL 1206T	
Temp Bay 2 Ox Sump Tk Surf	SP 0055T		Pan Cam N ₂ Line in Temp	SL 1211T	
Temp Bay 5 Fuel Sump Tk Surf	SP 0056T		Pan Cam N ₂ Tk Temp	SL 1212T	
Fu Tks Press	SP 0066P	SM*	Mom Box Temp	SL 1215T	
SPS Prplnt Tks N ₂ A Press	SP 0600P	SM	Sim Therm Env BM6 Temp	SL 1217T	
Eng Chamber Press	SP 0661P	SM	Sim Therm Env Shelf Temp	SL 1220T	
Fuel SM/Eng Interface Press	SP 0930P		Sim Therm Env Shelf Temp	SL 1221T	
			HF Ant Support Temp	SL 1223T	
SM He Tk A Press	SR 5001P	SM	TLM 2 Master Unit Temp	ST 0562T	
SM He Tk C Press	SR 5003P	SM	TLM 2 Slave Unit Temp	ST 0563T	
SM He Tk A Temp	SR 5013T	SM	Power to Scientific Data		
SM He Tk C Temp	SR 5015T	SM	Buffer Amp		
Qty SM Propellant Sys A	SR 5025Q	SM			
Qty SM Propellant Sys C	SR 5027Q	SM			
SM Eng Package A Temp	SR 5065T	SM*	<u>CB 4</u>		
SM Eng Package C Temp	SR 5067T	SM*	Main dc bus A&B power to		
SM Ox Feed Line A Temp	SR 5069T		following instrumentation:		
SM Ox Feed Line C Temp	SR 5071T		Skin Temp 4A	SA 1831T	
SM Pri Fuel Tk A Temp	SR 5073T		Skin Temp 10A	SA 1833T	
SM Pri Fuel Tk C Temp	SR 5075T				
SM He Manf Sys A Press	SR 5729P		O ₂ Tk 1 Press	SC 0037P	SM*
SM Ox Manf Sys A Press	SR 5733P		H ₂ Tk 1 Press	SC 0039P	M*
SM Fuel Manf Sys A Press	SR 5737P	SM*	O ₂ Tk 2 Htr Temp	SC 0071T	SM
SM He Manf Sys C Press	SR 5817P		FC 1 O ₂ Press	SC 2066P	SM
SM Ox Manf Sys C Press	SR 5820P		FC 1 H ₂ Press	SC 2069P	SM
SM Fuel Manf Sys C Press	SR 5822P	SM*	FC 1 Rad Out Temp	SC 2087T	SMB*
			FC 1 Rad In Temp	SC 2090T	
			FC 1 H ₂ Flow	SC 2139R	SM*
			FC 1 O ₂ Flow	SC 2142R	SM*
Proton Ct Rate Chan 1	ST 0820K				
Proton Ct Rate Chan 2	ST 0821K		Fu Tks Press	SP 0006P	SM*
Proton Ct Rate Chan 3	ST 0822K		Upper He Tk Surf Temp	SP 0017T	
Proton Ct Rate Chan 4	ST 0823K		Position Fu/Ox Vlv 2		
Alpha Ct Rate Chan 1	ST 0830K		Pot B	SP 0023H	
Alpha Ct Rate Chan 2	ST 0831K		Position Fu/Ox Vlv 4		
Alpha Ct Rate Chan 3	ST 0832K		Pot B	SP 0025H	
Proton Integ Ct Rate	ST 0838K				

MEASUREMENTS

MEASUREMENTS

MEASUREMENTS

MEASUREMENTS

MEASUREMENTS

MEASUREMENTS

MEASUREMENTS

Msrmnt Title	Msrmnt No.	O. B. Display
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CB 4 (Continued)

Position Fu/Ox Vlv 1 Pot A	SP 0026H	M
Position Fu/Ox Vlv 3 Pot A	SP 0028H	M
Ox Tks Press	SP 0033P	SM*
He Tk Press Display	SP 0035P	SM
Temp Eng Vlv Body	SP 0045T	
Temp Ox Eng Feed Line	SP 0049T	SM
Fuel Line Temp	SP 0057T	
Temp Bay 3 Ox St Tk Surf	SP 0058T	
Temp Bay 6 Fu St Tk Surf	SP 0059T	
SPS Vlv Act Press Sec	SP 0601P	SM
Ox SM/Eng Interface Press	SP 0931P	
SM He Tk B Press	SR 5002P	SM
SM He Tk D Press	SR 5004P	SM
SM He Tk B Temp	SR 5014T	SM
SM He Tk D Temp	SR 5016T	SM
Qty SM Propellant Sys B	SR 5026Q	SM
Qty SM Propellant Sys D	SR 5028Q	SM
SM Eng Package B Temp	SR 5066T	SM*
SM Eng Package D Temp	SR 5068T	SM*
SM Ox Feed Line B Temp	SR 5070T	
SM Ox Feed Line D Temp	SR 5072T	
SM Pri Fuel Tk B Temp	SR 5074T	
SM Pri Fuel Tk D Temp	SR 5076T	
SM He Manf Sys B Press	SR 5776P	
SM Ox Manf Sys B Press	SR 5780P	
SM Fuel Manf Sys B Press	SR 5784P	SM*
SM Ox Manf Sys D Press	SR 5821P	
SM Fuel Manf Sys D Press	SR 5823P	SM*
SM He Manf Sys D Press	SR 5830P	
Nuclear Part Det Temp	ST 0840T	
Nuclear Part Anal Temp	ST 0841T	

LEGEND:

O. B. Display	=	On Board Display
M	=	Meter
SM	=	Selectable Meter
B	=	Talk Back Indicator
*	=	Input to Caution/Warning

SYSTEMS SCHEMATICS
THE CONTENTS WILL CONSIST OF REPRINTS OF THE FOLLOWING
DRAWINGS FROM THE CSM SYSTEMS HANDBOOK

- 2.1 SEQUENTIAL OVERVIEW
- 2.2 SEQUENTIAL POWER DISTR
- 2.7 DOCKING PROBE
- 2.8 CSM-LM ELEC INTERFACE
- 2.9 CSM/EXPERIMENT INTERFACE
- 3.2 ELEC DC DIST & CONTROL
- 3.3 ELEC AC DIST & CONTROL
- FIG. 3-1 PWR DIST - MAIN
- FIG. 3-2 PWR DIST - AC
- FIG. 3-3 PWR DIST - MISC
- 3.4 SCIENCE EXP. & UTILITY POWER DISTRIBUTION
- 4.2 SUIT & CABIN PRESS
- 4.3 PRIMARY GLYCOL LOOP
- 4.4 SECONDARY GLYCOL LOOP
- 4.5 WATER AND WASTE MGT
- 5.2 CRYO GAS STORAGE
- 5.3 FUEL CELL
- 6.1 COMM SYSTEM OVERVIEW
- 6.2 UNIFIED S-BAND SYS RF
- 6.3 VHF AM TRANSCIEVERS AND AUDIO EQUIP.
- 6.4 PREMOD PROCESSOR
- 7.1 INSTR PWR AND CONTROL
- 7.3 C&W SYSTEM
- 8.7 SCS POWER DISTRIBUTION
- 8.3 SCS OVERVIEW
- 8.4 G&N PWR DISTR
- 8.5 INERTIAL SUBSYSTEM
- 8.6 OPTICS SUBSYSTEM
- 8.9 CONTROL ELECTRONICS (ECA/TVC/GYROS)
- 8.10 AUTO/MANUAL RCS
- 9.1 SERVICE PROPULSION SYS
- 10.1 SM RCS
- 10.2 CM RCS
- 11.2 LIGHTING - INTERIOR AND EXTERIOR
- 12.1 PANORAMIC CAMERA
- 12.2 MAPPING CAMERA
- 12.5 FAR UV SPECTROMETER
- 12.6A LUNAR SOUNDER CSAR
- 12.6 LUNAR SOUNDER CSAR
- 12.7 LUNAR SOUNDER OPTICAL RECORDER
- 1.15 SIM BAY VIEWS
- 1.16 SIM BAY VIEWS

